	nited States Patent [19]	[11] Patent Number: 4,861,60 [45] Date of Patent: Aug. 29, 198	
[54]	PROCESS FOR TREATING FISH BODIES	[56] References Cited	
		U.S. PATENT DOCUMENTS	
[75]	Inventors: Yasuzo Uchida, Tokyo; Yoichi Shirakawa, Urawa, both of Japan	3,041,174 6/1962 Ehlert	6/7
[73]	Assignee: Asahi Denka Kogyo Kabushiki	4,405,649 9/1983 Jeffreys et al 426,	/56
	Kaisha, Tokyo, Japan	Primary Examiner—Marianne Cintins Attorney, Agent, or Firm—Frishauf, Holtz, Goodman	n &r
[21]	Appl. No.: 227,432	Woodward	100
[22]	Filed: Jul. 29, 1988	[57] ABSTRACT	
[22]	Filed: <b>Jul. 29, 1988</b>	According to the process of the present invention, f	fish
	Related U.S. Application Data	bodies, from which the internals and/or skins are tionally removed, are treated with a protease to giv	
••		gain in soluble nitrogen contained in the treated mate-	
[63]	Continuation of Ser. No. 21,967, Mar. 5, 1987, abandoned.	rial based on the total nitrogen contained in the starting material of 3 to 50% to thereby give a slurry; and fish	ing
[51]	Int. Cl. <sup>4</sup> A23J 1/04; A23L 1/325	bones, fish oil, partially decomposed fish porteins a	and
[52]	U.S. Cl	an aqueous solution containing water-soluble com	
[50]	426/657	nents are separated and recovered from said slurry.	
[58]	Field of Search	4 Claims, No Drawings	